

FIG. 1

# RNA Isolation Protocol

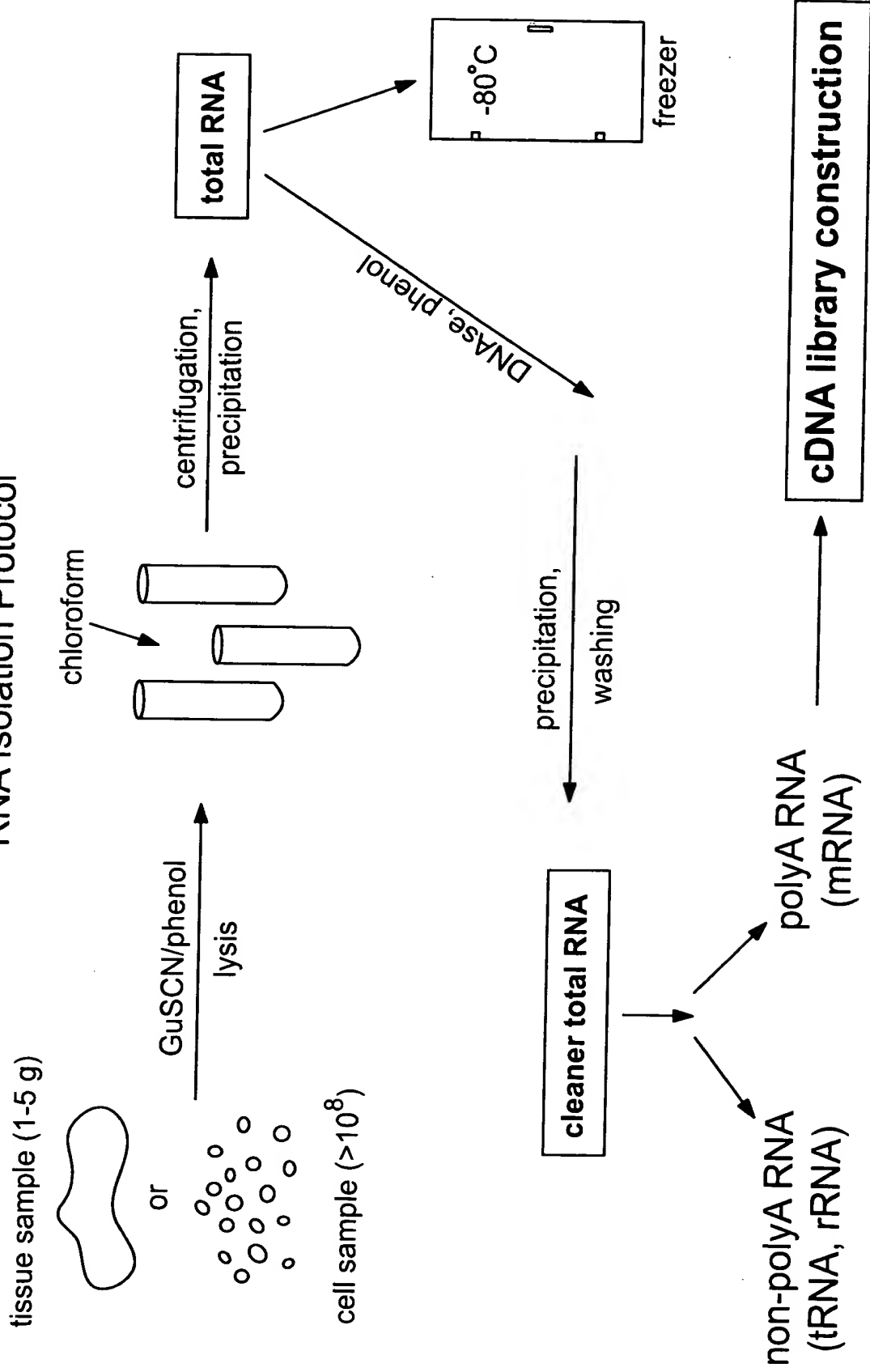
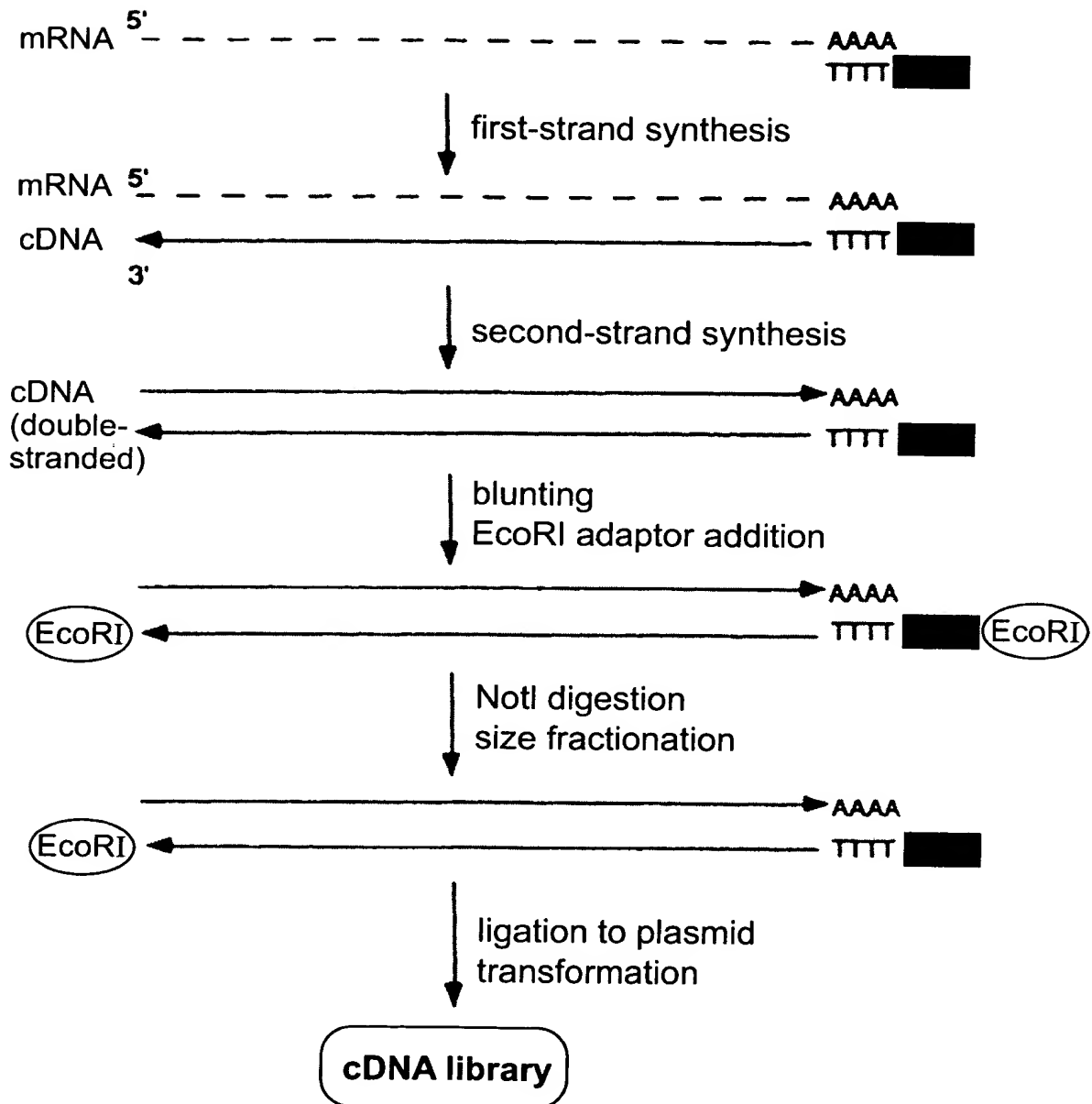


FIG. 2

**cDNA Library Construction**



Block 1 Sequence Editing Screens

Target Sequence Feature	Editing Method	Result
5' and 3' Vector	Dynamic Programming	Clip
PolyA Tail	Regular Expression	Clip
Sequencing Artifacts	Nearest Neighbor	Remove
Low Information	BLAST (S ≥ 90)	Mask
Contamination	BLAST (S ≥ 90)	Remove
Repetitive Elements	BLAST (S ≥ 90)	Mask
Mitochondrial	BLAST (S ≥ 90)	Remove
Ribosomal RNA	BLAST (S ≥ 90)	Remove

FIG. 3

FIG. 4

Aberrant					Expected				
A	C	G	T		A	C	G	T	
32	8	8	8	56	14	14	14	14	56
8	32	8	8	56	14	14	14	14	56
8	8	32	8	56	14	14	14	14	56
8	8	8	32	56	14	14	14	14	56
56	56	56	56	224	56	56	56	56	224

e.g. CCCCGGGGTTTTCCCCAAAGGGG...

1. The first part of the document is a list of names and their corresponding dates. The names are: John Doe, Jane Smith, and Bob Johnson. The dates are: 12/15/2023, 12/16/2023, and 12/17/2023.

FIG. 7

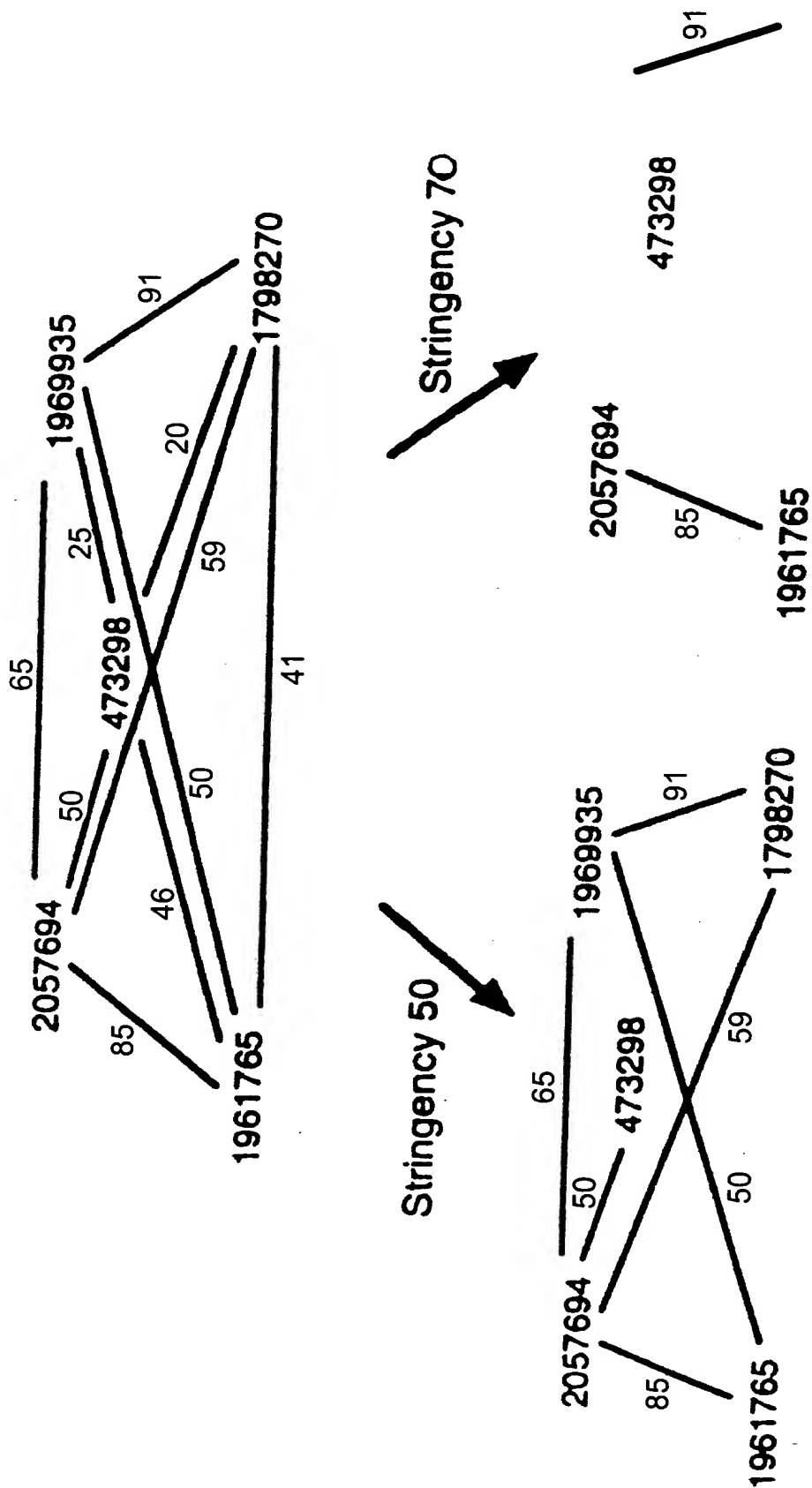
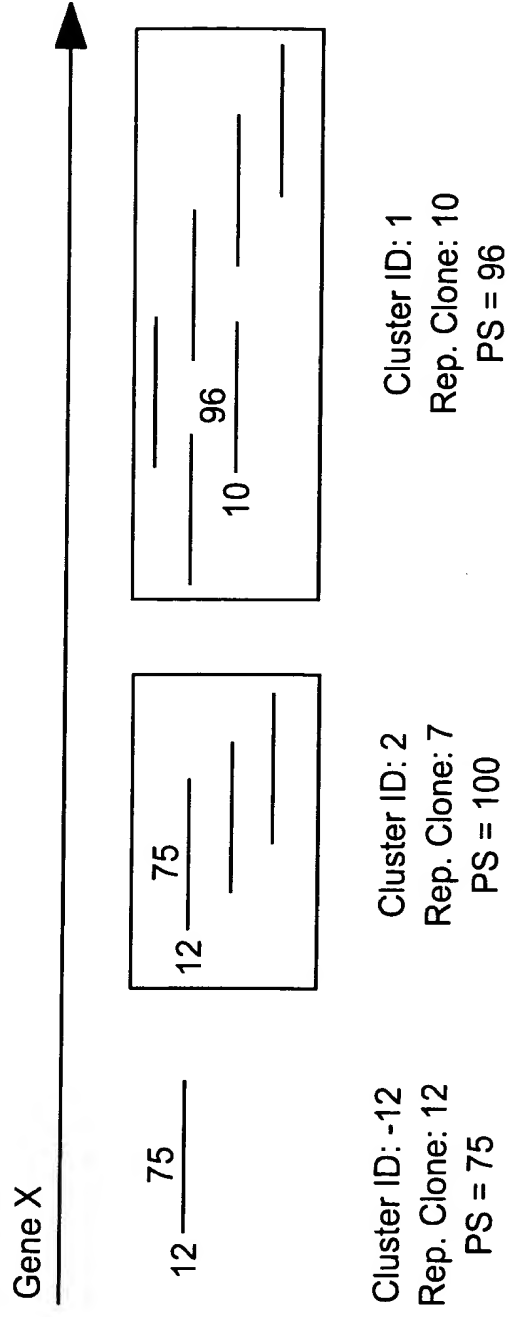


FIG. 8

Creating a Master Cluster

Example: Cluster - 12 (singleton), Cluster 2, and Cluster 1 all contain representative clones with PS  $\geq 40$  to Gene X.

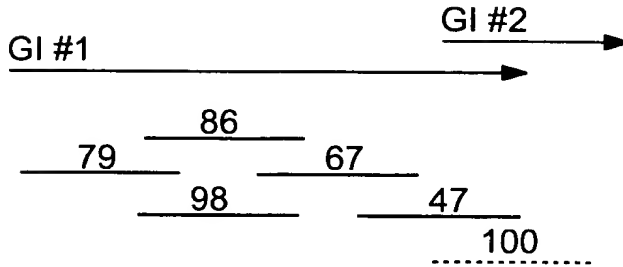


## FIG. 9

### Naming a Cluster

Q: Does any member of the cluster have a match to GenBank?

**YES**

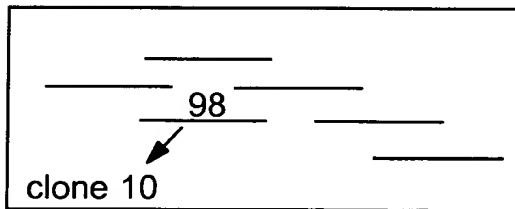


5 clones (solid line) match GI #1  
1 clone (dashed) matches GI #2

Q: Which GI is represented the most  
in the cluster?

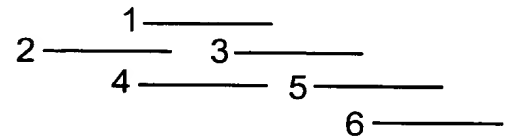
A: GI #1 is represented the most.

Q: Of those clones matching GI #1,  
which has the highest Product Score?

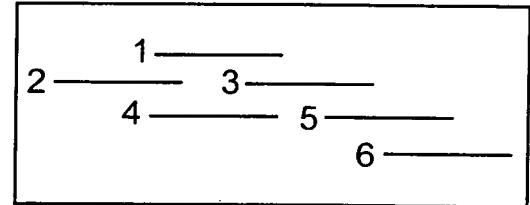


A: Clone 10 has a Product Score of 98,  
so the cluster is named after this  
representative clone.

**NO**



Q: Which clone has the lowest Clone  
ID for this cluster?



unique cluster

A: Clone 1 has the lowest ID, so the  
unique cluster is named after this  
representative clone.



FIG. 10

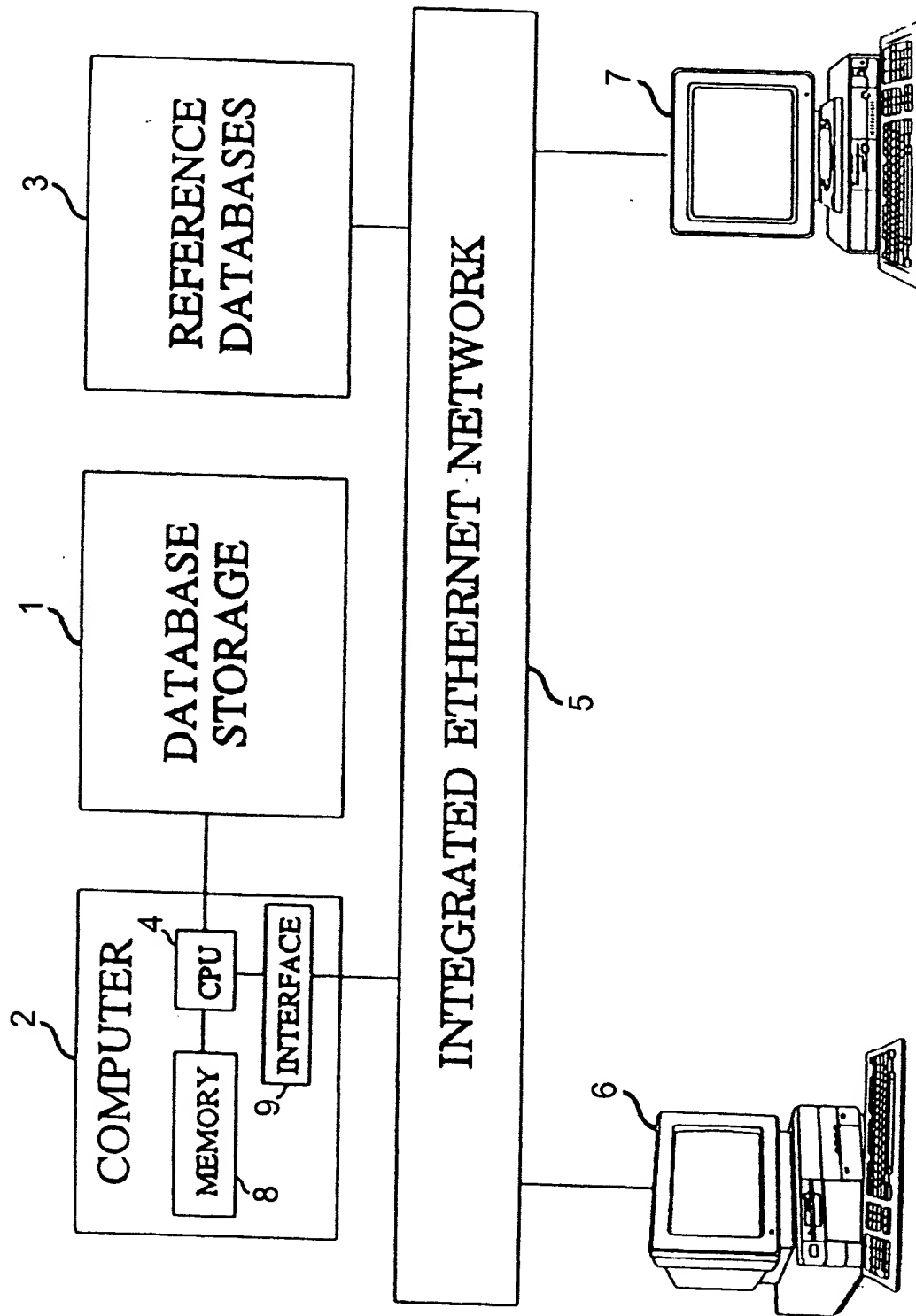


FIG. 11a

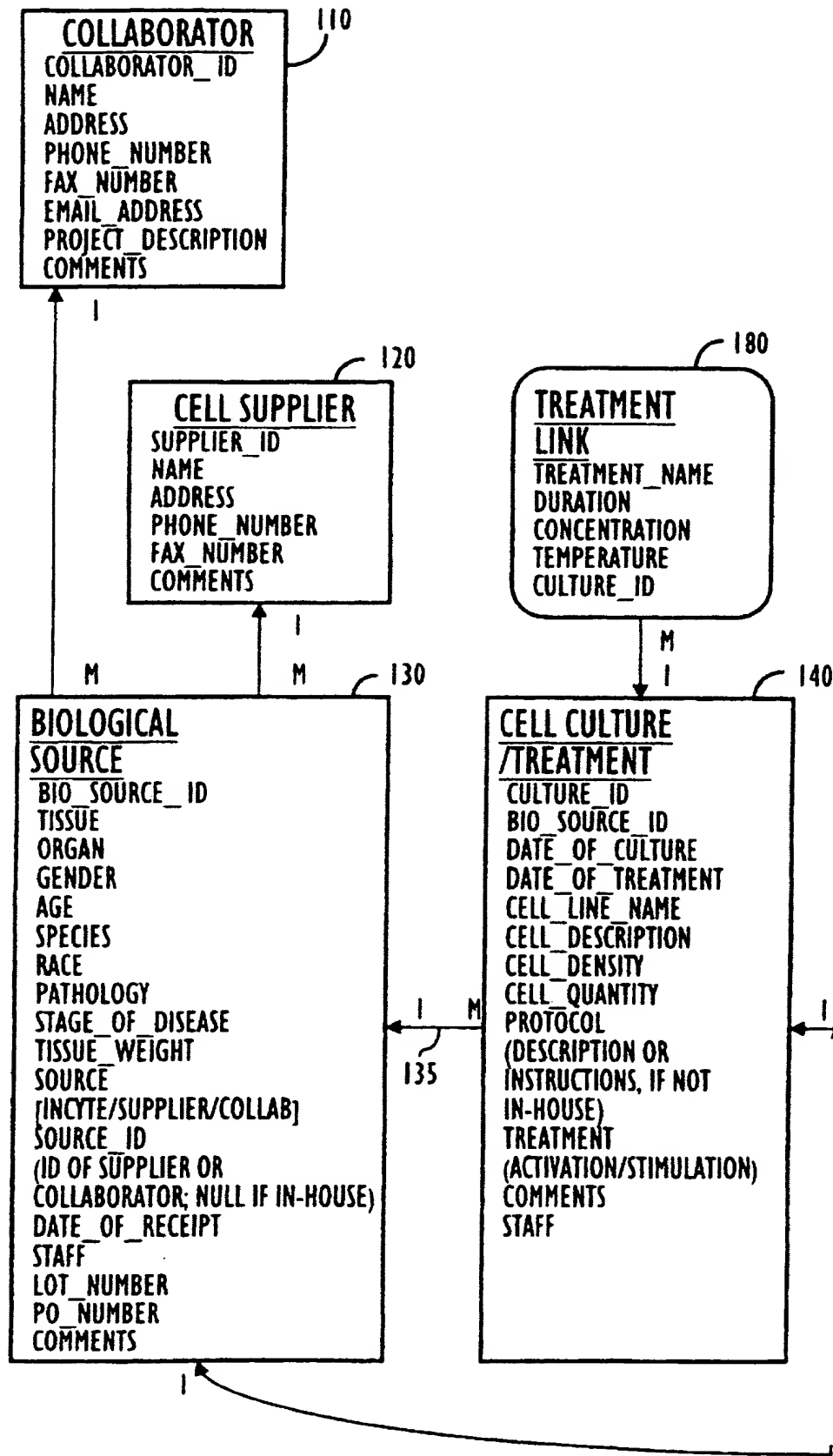


FIG. 11a

FIG. 11b

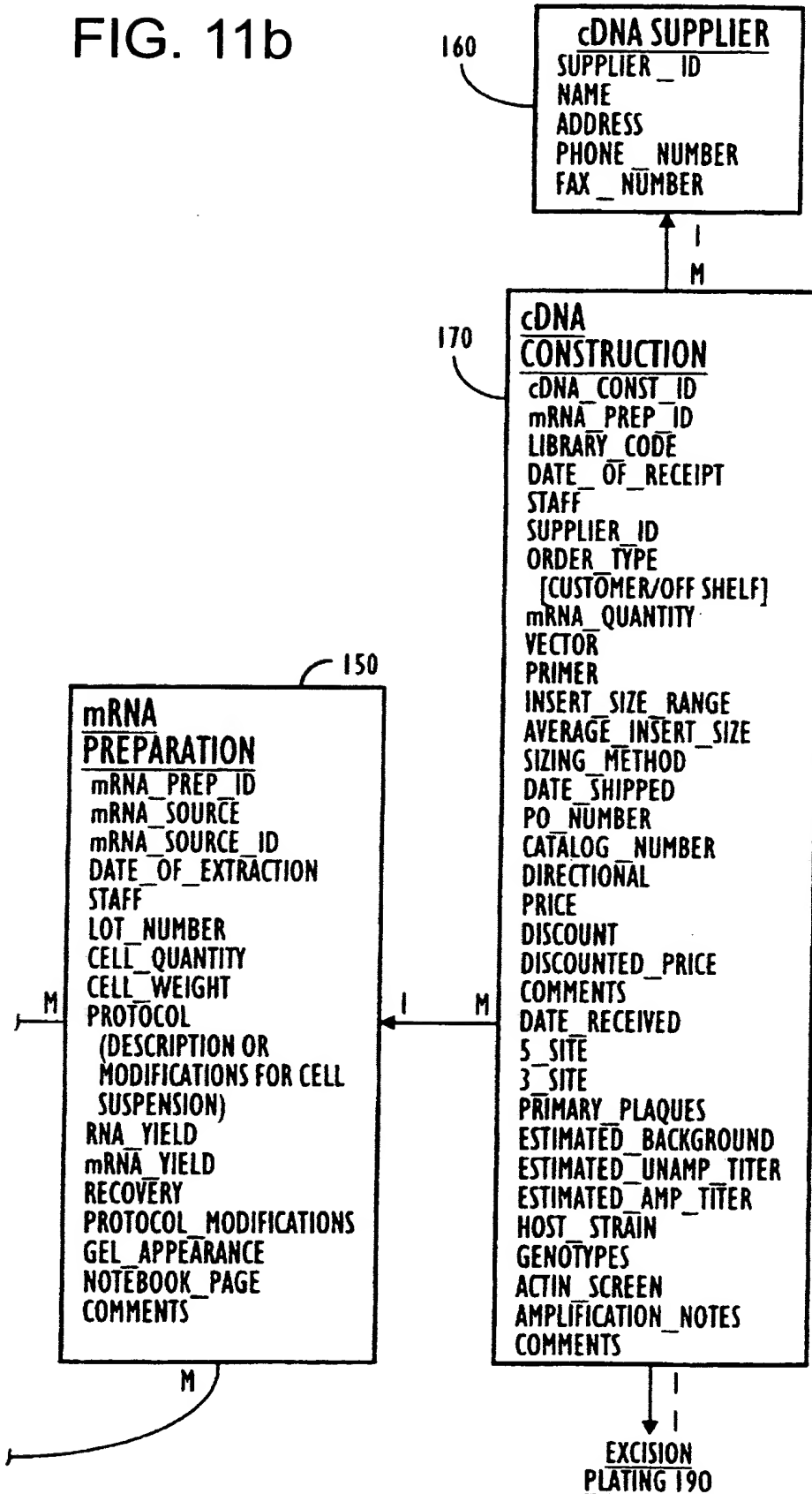


FIG. 12

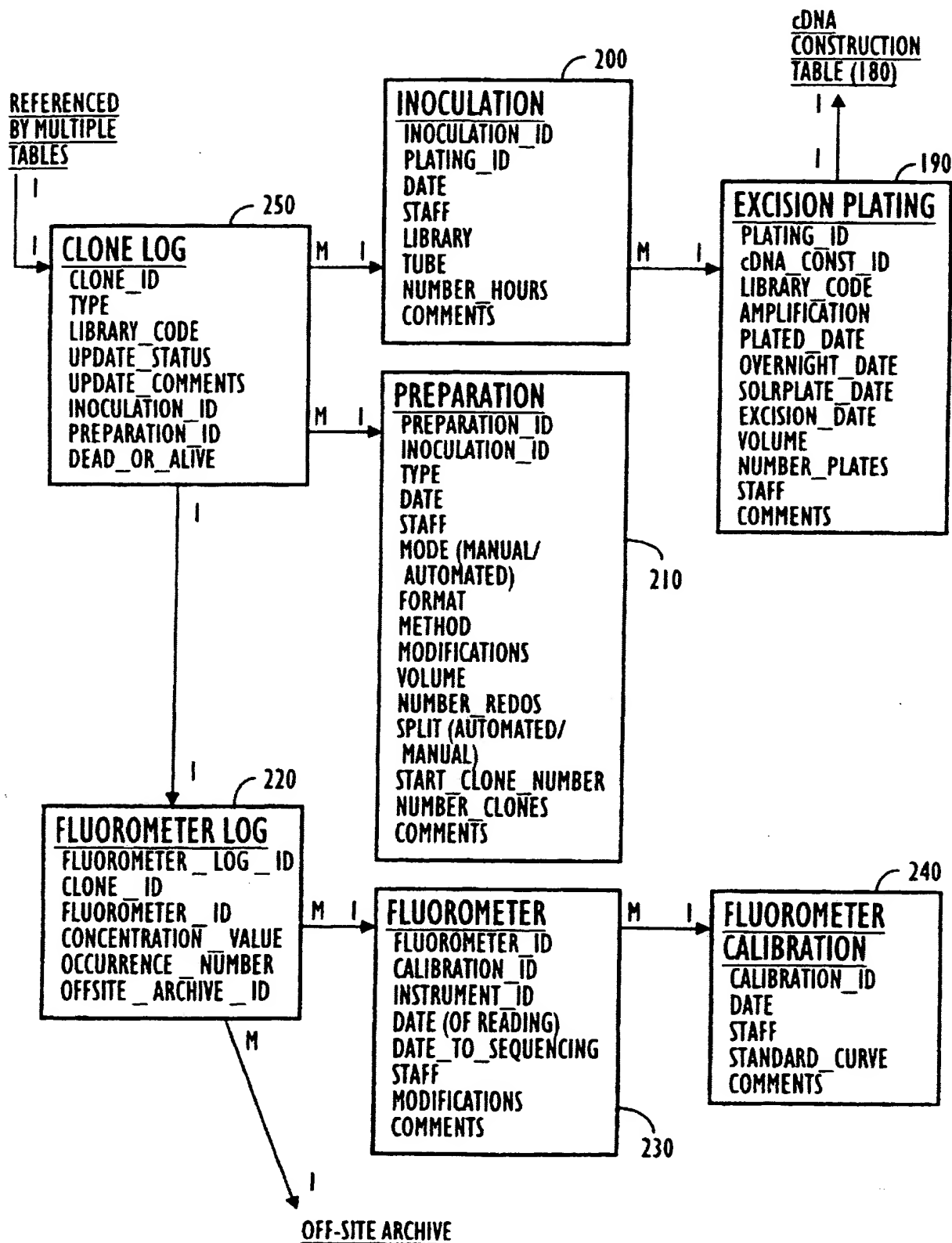
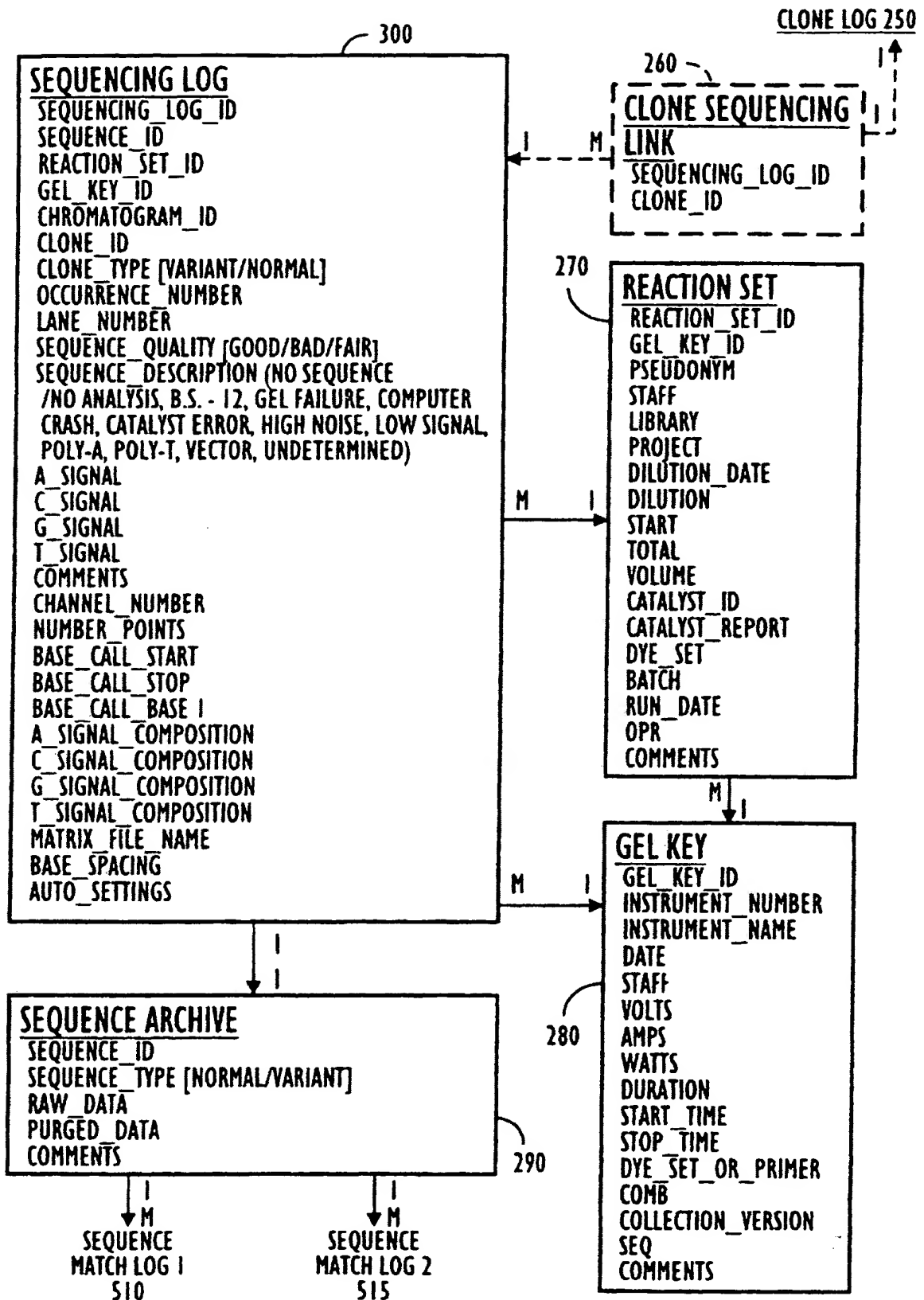


FIG. 13



"FIG. 13" 669560

FIG. 14

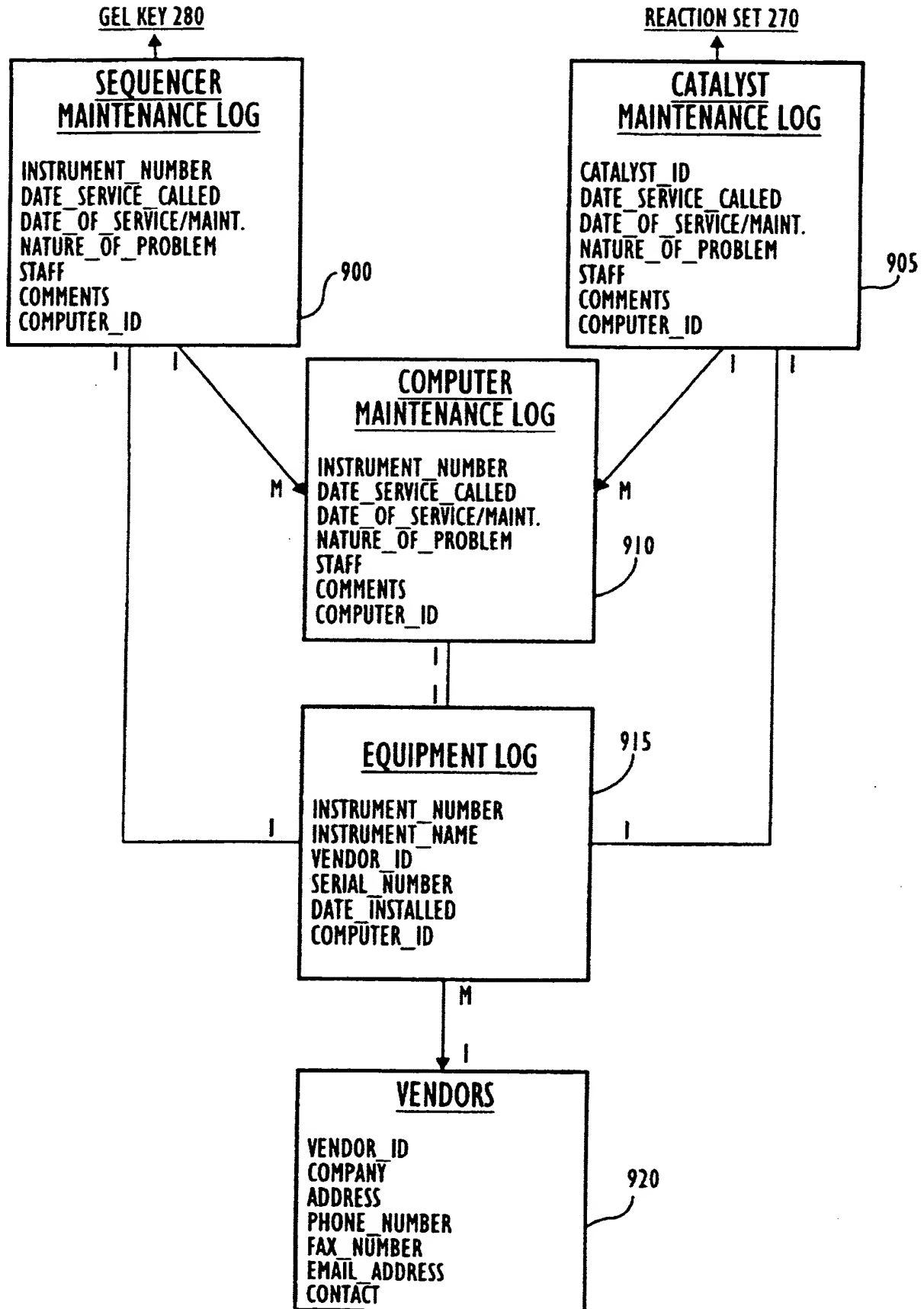


FIG. 15

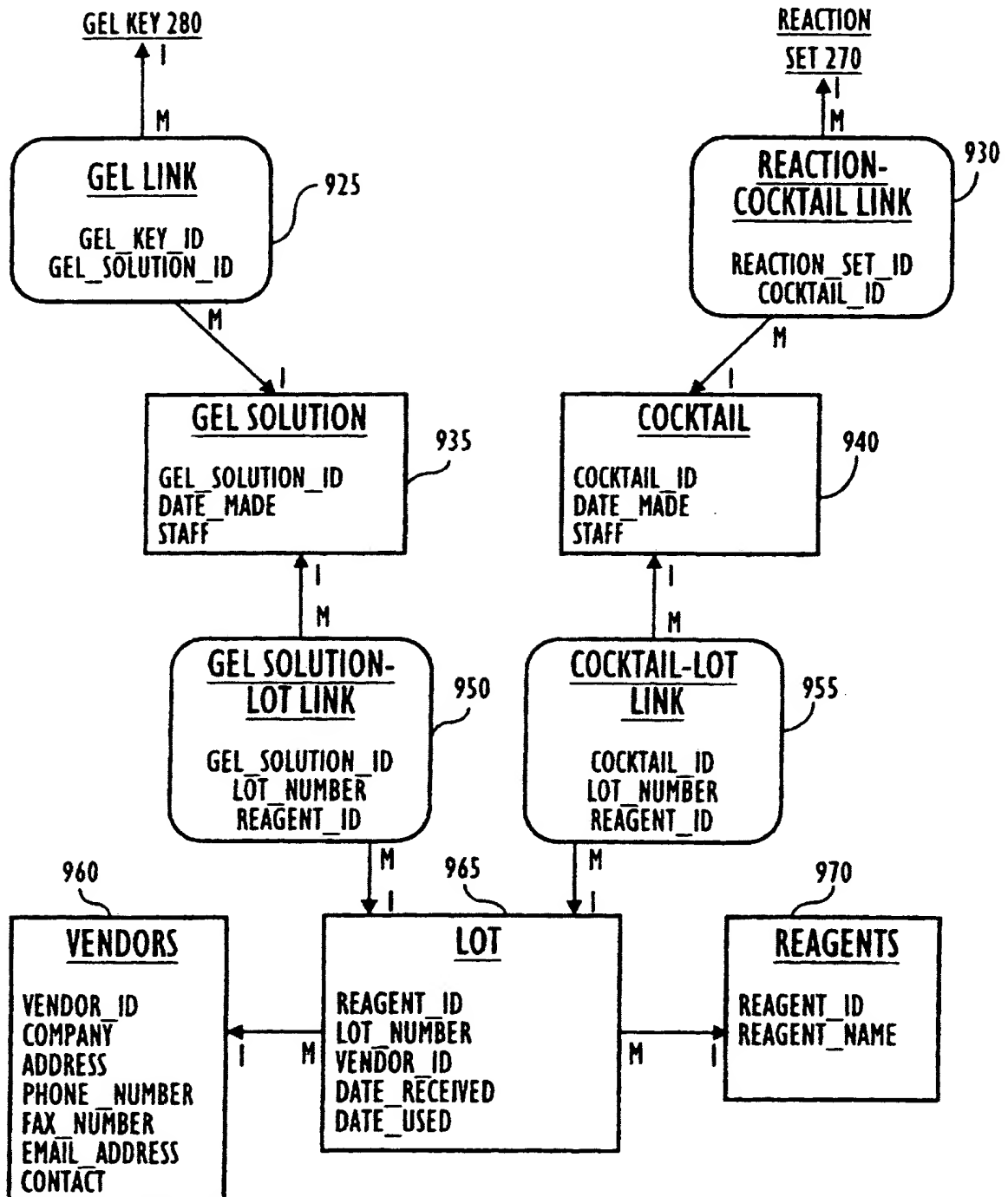


FIG. 16

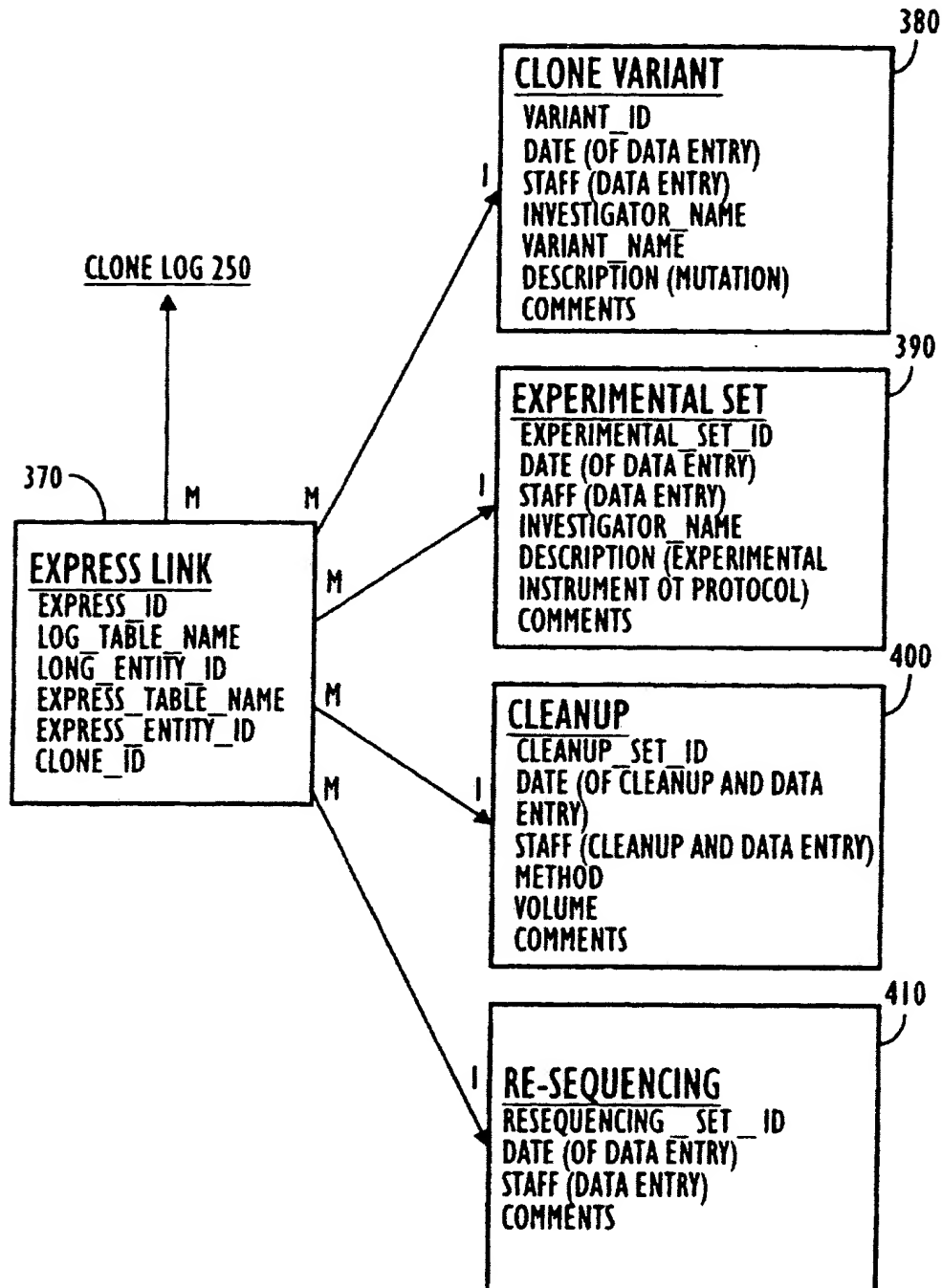




FIG. 17

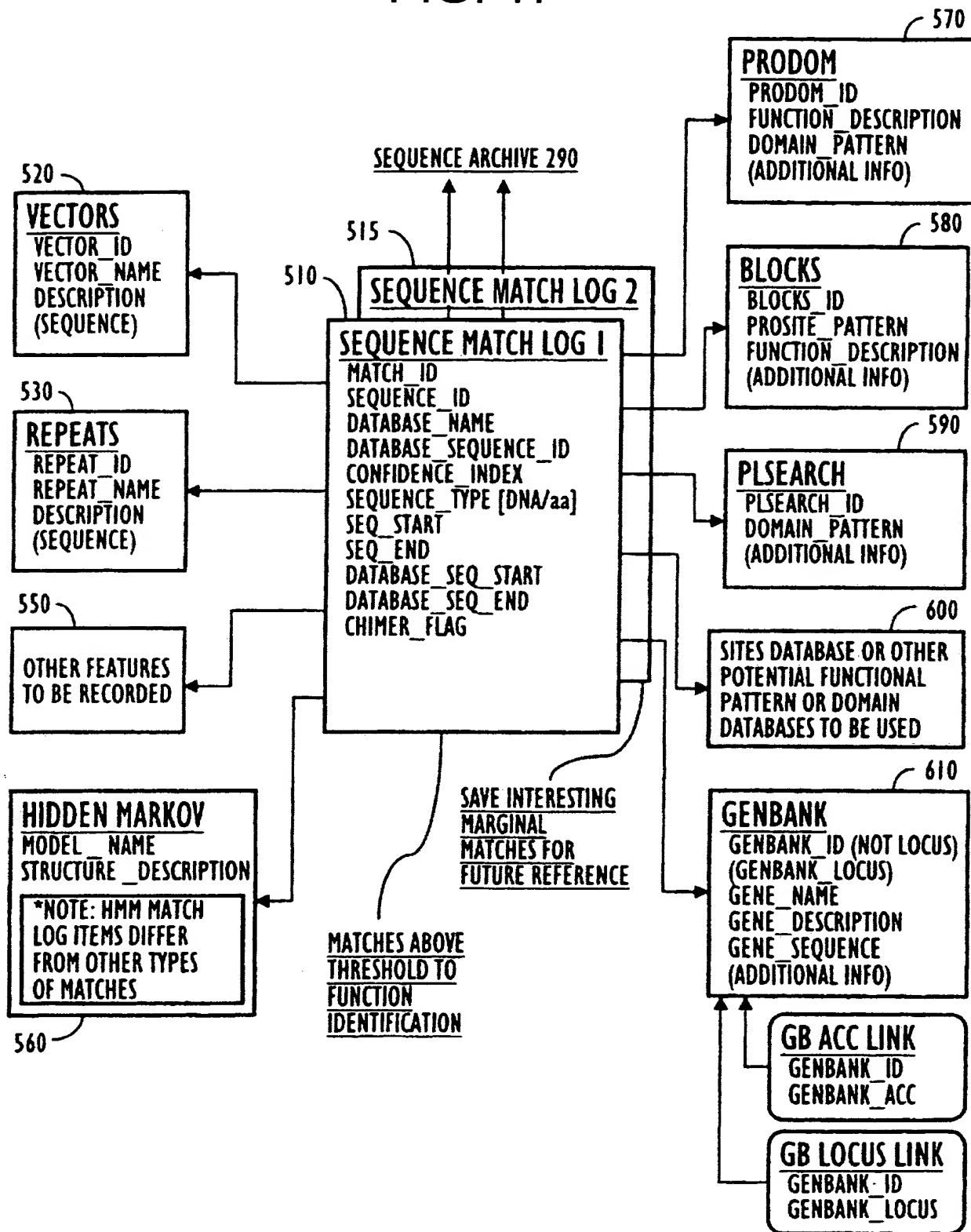


FIG. 18

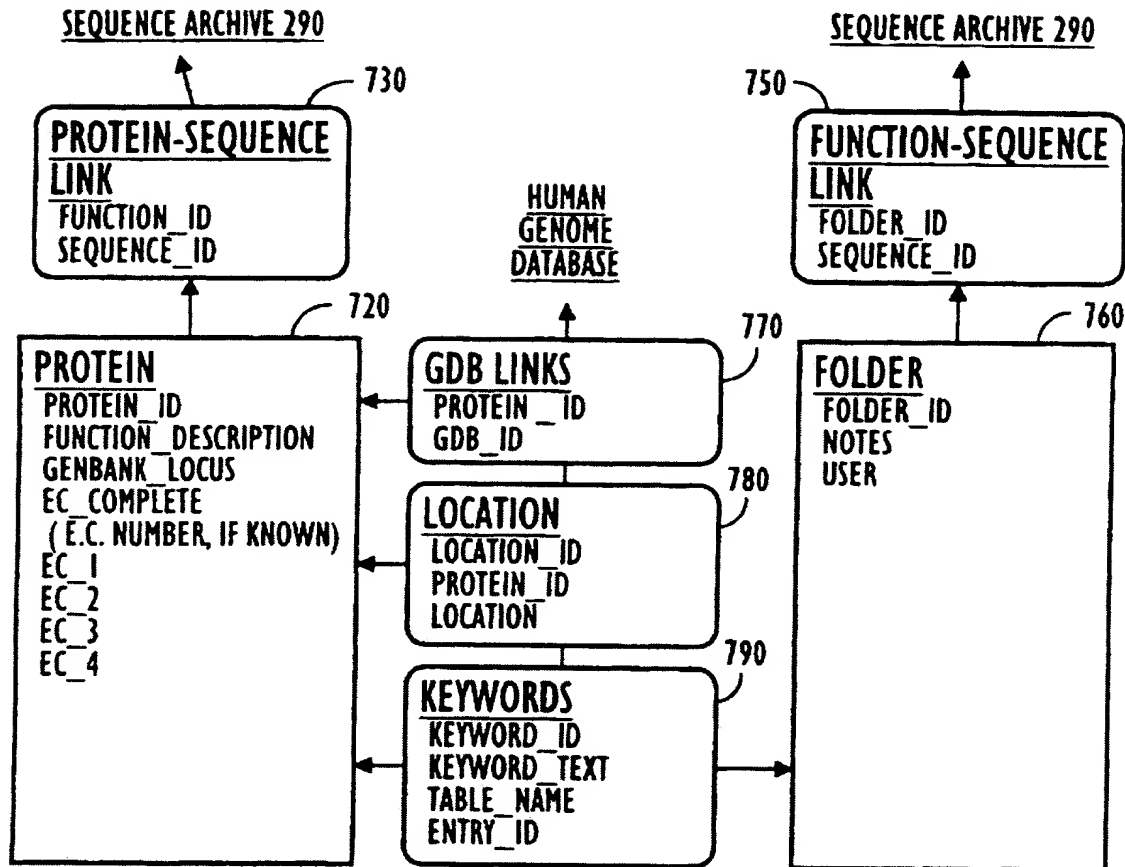


FIG. 18